

WSDOT LIBRARY

NEW ACQUISITIONS - AUGUST 2005

REFERENCE

Style: Ten Lessons in Clarity and Grace. Joseph M. Williams. 8th ed. Pearson Longman, 2005. (R 808.042 WILLIAM 2005)

ACCIDENT STUDIES & DRIVER BEHAVIOR

Impact of Left-Turn Phasing on Older and Younger Drivers at High-Speed Signalized Intersections. Shauna L. Hallmark and Kim Mueller. Center for Transportation Research and Education, Iowa State University, 2004. (388.13 HALLMARK 2004) <http://www.ctre.iastate.edu/reports/protect%5Fpermit.pdf>

Validation of Accident Models for Intersections. Simon Washington... [et al.] U.S. Department of Transportation, Federal Highway Administration, Research, Development, and Technology, Turner-Fairbank Highway Research Center, 2005. (363.125 VALIDAT 2005)

AIR QUALITY

Evaluating Speed Differences Between Passenger Vehicles and Heavy Trucks for Transportation-Related Emissions Modeling. Shauna L. Hallmark and Hillary Isebrands. Center for Transportation Research and Education, Iowa State University, 2004. (363.7392 HALLMARK 2004) <http://www.ctre.iastate.edu/reports/truck%5Fspeed.pdf>

Transportation Emissions Guidebook, Part One. Greg Dierkers...[et al.] Center for Clean Air Policy, 2005. (Internet Resource) <http://www.ccap.org/guidebook>

BRIDGES

Bridge Preservation and Maintenance in Europe and South Africa. Prepared by the International Scanning Study Team, Kenneth Hurst... [et al.] , American Trade Initiatives, Inc. and LGB & Associates, Inc. U. S. Dept. of Transportation, 2005. (624.28 BRIDGE 2005) <http://www.international.fhwa.dot.gov/links/pubs.cfm>

Conductive Concrete for Bridge Deck Deicing and Anti-Icing. Christopher Y. Tuan. Dept. of Civil Engineering, University of Nebraska-Lincoln, 2004. (625.763 TUAN 2004)

Covered Bridge Manual. Phillip C. Pierce... [et al.] U.S. Dept. of Transportation, Federal Highway Administration, Research, Development, and Technology, Turner-Fairbank Highway Research Center, 2005. (388.132 COVERED 2005)

Development of Abutment Design Standards for Local Bridge Designs. v. 1 Development of Design Methodology -- v. 2 Design Manual -- v. 3 Verification of Design Methodology. F.W. Klaiber... [et al.] Dept. of Civil, Construction and Environmental Engineering, Iowa State University, 2004. (624.284 DEVELOP 2004)
<http://www.ccee.iastate.edu/reports/tr486vol1.pdf>
<http://www.ccee.iastate.edu/reports/tr486vol2.pdf>
<http://www.ccee.iastate.edu/reports/tr486vol3.pdf>

Evaluating FRP Repair Method for Cracked Prestressed Concrete Bridge Members Subjected to Repeated Loadings, Phase 1. Calvin E. Reed, Robert J. Peterman and Hayder A. Rasheed. Kansas Dept. of Transportation, 2005. (624.28 REED 2005)

Identification of the Best Practices for Design, Construction, and Repair of Bridge Approaches. David J. White... [et al.] Center for Transportation Research and Education, Iowa State University, 2005. (624.2 IDENTIF 2005)
<http://publications.iowa.gov/archive/00002745/>

Performance Investigation of a Fiber Reinforced Composite Honeycomb Deck for Bridge Applications. Ondrej Kalny and Robert J. Peterman. Kansas Dept. of Transportation, 2005. (624.283 KALNY 2005)
<http://www.ksdot.org/idmws/DocContent.dll?Library=PublicDocs%5Edt00mx38&ID=003697345>
<http://www.ksdot.org/idmws/DocContent.dll?Library=PublicDocs%5Edt00mx38&ID=003697347>
<http://www.ksdot.org/idmws/DocContent.dll?Library=PublicDocs%5Edt00mx38&ID=003697351>

Prefabricated Bridge Elements and Systems in Japan and Europe. FHWA Office of International Programs, 2005. (624.2 PREFABR 2005)
<http://www.fhwa.dot.gov/bridge/prefab/>

Rubber Buffings for Bridge Approach Expansion Joints. Robert Steffes, Mike Todsen, and Elijah Gansen. Office of Materials, Iowa Dept. of Transportation, 2001. (624.257 STEFFES 2001)
<http://www.dot.state.ia.us/materials/research/reports/reports%5Fpdf/mlr/reports/mlr0101.pdf>

CONFERENCE PROCEEDINGS

19th Annual Statewide Project Engineers' Conference. Washington State Dept. of Transportation, 2005. (625.7 STATEWI 2005 19th)

International Perspectives on Road Pricing: Report of the Committee for the International Symposium on Road Pricing, November 19-22, 2003, Key Biscayne, Florida Transportation Research Board, 2005. Conference proceedings, Transportation

Research Board, vol. 34. (625 CONFERE 2003 34th)
<http://www.trb.org/publications/conf/CP34roadpricing.pdf>

CONGESTION PRICING & TOLL FACILITIES

Acceptability of Transport Pricing Strategies. Editors: Jens Schade and Bernhard Schlag. Pergamon, 2003. (388.114 ACCEPTA 2003)

ECONOMICS & FINANCE

Approximation of the Economic Impacts of the Kansas Comprehensive Transportation Program. Michael W. Babcock. Kansas Dept. of Transportation, Bureau of Materials and Research, 2004. (388.114 BABCOCK 2004)
<http://www.ksdot.org/idmws/DocContent.dll?Library=PublicDocs%5Edt00mx38&ID=003697118&Page=1>

Highlights of an Expert Panel: The Benefits and Costs of Highway and Transit Investments. U.S. Government Accountability Office, 2005. (388.114 HIGHLIG 2005)
<http://purl.access.gpo.gov/GPO/LPS61947>

Motor Fuels: Understanding the Factors That Influence the Retail Price of Gasoline. U.S. Government Accountability Office, 2005. (338.2728 MOTOR F 2005)
<http://purl.access.gpo.gov/GPO/LPS61962>

Policy Strategies for Iowa in Making Major Road Investments. David J. Forkenbrock. University of Iowa, Public Policy Center, 2002. (388.114 FORKENB 2002)

ENVIRONMENTAL & SOCIAL ISSUES

Evaluation of Juvenile Salmon Leaping Ability and Behavior at an Experimental Culvert Test Bed. W.H. Pearson... [et al.] Washington State Dept. of Transportation, 2005. WA-RD 613.1 (639.977 EVALUAT 2005)

I-90 Wildlife Corridors Using GIS & GPS: Spatial-Temporal Model of Landscape Use by GPS Marked Cougars. Benjamin T. Maletzke, Gary M. Koehler, William R. Meyer. Washington State Dept. of Transportation, 2005. WA-RD 622.1 (577.272. MALETZK 2005)

Managing Archaeological Investigations. Terry H. Klein... [et al.]. Transportation Research Board, 2005. NHRP Synthesis 347. (625.7 N2131s 2005 no347)
<http://trb.org/publications/nchrp/nchrp%5fsyn%5f347.pdf>

Progress Performance Report for Fish Passage Inventory, Corrections, and Project Evaluation. Washington State Dept. of Transportation, Fish Passage Barrier Removal

Program, 2005. (639.977 WASHING Apr 2005)
<http://www.wsdot.wa.gov/environment/fishpass/state%5Fhighways.htm>

FREIGHT & FREIGHTAGE

Options for Benchmarking Performance Improvements Achieved from Construction of Freight Mobility Projects. Edward McCormack and Mark E. Hallenbeck. Washington State Dept. of Transportation, 2005. WA-RD 607.1 (388.3242 MCCORMA 2005)

Study to Determine the Need for Innovative Technologies for Container Transportation System. Lazar N. Spasovic... [et al.] New Jersey Dept. of Transportation, 2004. (388.044 STUDY T 2004)

GEOGRAPHIC INFORMATION SYSTEMS

GPS to LRM: Integration of Spatial Point Features with Linear Referencing Methods. Shauna L. Hallmark Midwest Transportation Consortium, 2001. (910.285 HALLMARK 2001)

HISTORICAL

Historical Review, Volume Two, Arkansas State Highway Commission and Arkansas State Highway and Transportation Department, 1913-2003. Arkansas State Highway and Transportation Dept., 2004. (388.1097 HISTORI 2004)

INFORMATION SYSTEMS

Application of HDM-4 in the WSDOT Highway System. Jianhua Li... [et al.] Washington State Dept. of Transportation, 2004. WA-RD 588.1 (625.7606 APPLICA 2004)

INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

ATIS Evaluation Framework. Jaime M. Kopf ... [et al.] Washington State Dept. of Transportation, 2005. WA-RD 606.1 (388.3124 ATIS EV 2005)
<http://depts.washington.edu/trac/bulkdisk/pdf/606.1.pdf>

MATERIALS & CONSTRUCTION

America's Top 100 Private Sector Transportation Design & Construction Professionals of the 20th Century. American Road & Transportation Builders Association, 2004. (620.0092 AMERICA 2004)

2005 AASHTO Provisional Standards. American Association of State Highway and Transportation Officials, 2005. (AASHTO PS-08 2005)

Standard Specifications for Transportation Materials and Methods of Sampling and Testing. American Association of State Highway and Transportation Officials, 2005. (AASHTO HM-25 2005)

Transportation Technician Qualification Program Administrative Manual. Western Alliance for Quality Transportation Construction, 2002. (Internet Resource)
<http://www.waqtc.org/publications/admin%5Fmanual.pdf>

PAVEMENT

Computer-Based Guidelines for Concrete Pavements. Volume I, Project Summary. J. Mauricio Ruiz... [et al.]. Turner-Fairbank Highway Research Center, 2005. (625.84 COMPUTE 2005 v1) <http://www.tfhrcc.gov/pavement/pubs/04121/04121.pdf>

Computer-Based Guidelines for Concrete Pavements. Volume II, Design and Construction Guidelines and HIPERPAV® II User's Manual. J. Mauricio Ruiz... [et al.]. Turner-Fairbank Highway Research Center, 2005. (625.84 COMPUTE 2005 v2) <http://www.tfhrcc.gov/pavement/pubs/04121/04121.pdf>

Feasibility of Backcalculation Procedures Based on Dynamic FWD Response Data. George Turkiyyah. Washington State Dept. of Transportation, 2005. WA-RD 586.1 (625.8028 TURKIYY 2005)

Paved Shoulders on Primary Highways in Iowa: An Analysis of Shoulder Surfacing Criteria, Costs, and Benefits. Reg Souleyrette... [et al.]. Center for Transportation Research and Education, Iowa State University, 2001. (625.73 PAVED S 2001) <http://www.ctre.iastate.edu/reports/pavedshoulder.pdf>

PLANNING & POLICY

2010 and Beyond : A Vision of America's Transportation Future. Lance R. Grenzeback... [et al.]. Hudson Institute, 2004. (388.0973 TWO THO 2004)

Montana Highway Reconfiguration Study. Christopher Wornum... [et al.]. Montana Dept. of Transportation, Research Program, 2005. (624.725 MONTANA 2005) <http://digitalarchive.oclc.org/request?id%3Ddocnum%3A60652765>

Taking the High Road : A Metropolitan Agenda for Transportation Reform. Bruce Katz and Robert Puentes, editors. Brookings Institution Press, c2005. (388.4097 TAKING 2005)

Transportation-Efficient Land Use Mapping Index (TELUMI): Phase 3 of Integrating Land Use and Transportation Investment Decision-Making. Anne Vernez Moudon and D.W. Sohn. Washington State Dept. of Transportation, 2005. WA-RD 620.1 (333.7313 MOUDON 2005)

Transportation Performance Measures in Australia, Canada, Japan, and New Zealand. Prepared by the International Scanning Study Team, Douglas MacDonald... [et al.], American Trade Initiatives, Inc. and LGB & Associates. U.S. Dept. of Transportation, 2004. (388.068 TRANSP0 2004)
<http://www.international.fhwa.dot.gov/pubs.html>

WSDOT's Role in Transportation Demand Management: Strategic Interest, Structure, and Responsibilities. Daniel Carlson, Zack Hill, Jill Simmons, Alex Atchison. Washington State Dept. of Transportation, 2005. WA-RD 616.1. (388.4131 WSDOTS 2005)

PUBLIC TRANSPORTATION

Assess Impacts and Benefits of Traffic Signal Priority for Buses. Janice Daniel, Edward Lieberman and Raghavan Srinivasan. New Jersey Dept. of Transportation, 2004. (625.794 DANIEL 2004)

E-Transit: Electronic Business Strategies for Public Transportation, Volume 7. The Successful Adoption of Web-Based Collaborative Software. Transportation Research Board, 2005. TCRP Report 84, vol. 7. (388.4097 TCRP RPT 2005 no84 v7)

Public Transportation Security, Volume 7. Public Transportation Emergency Mobilization and Emergency Operations Guide. John N. Balog... [et al.]. Transportation Research Board, 2005. TCRP Report 86, vol. 7. (388.4097 TCRP RPT 2005 no86 v7)

Research and Training of Private Transportation Providers for the Efficient and Effective Provision of Public Transportation Services. Ray A. Mundy... [et al.]. Center for Transportation Research and Education, Iowa State University, 2004. (388.4068 MUNDY 2004) <http://www.ctre.iastate.edu/mtc/projects/2001-03.htm>

Track-Related Research, Volume 5. Flange Climb Derailment Criteria and Wheel/Rail Profile Management and Maintenance Guidelines for Transit Operations. Huimin Wu, Xinggao Shu, Nicholas Wilson. Transportation Research Board, 2005. TCRP Report 71, vol. 5. (388.4097 TCRP RPT 2005 no71 v5)
<http://gulliver.trb.org/publications/tcrp/tcrp%5Frpt%5F71v5.pdf>

Use of Neural Network/Dynamic Algorithms to Predict Bus Travel Times Under Congested Conditions. Steven I-Jy Chien, Mei Chien and Xiaobo Liu. New Jersey Dept. of Transportation, 2003. (388.4132 CHIEN 2003)

Traveler Response to Transportation System Changes. Chapter 5, Vanpools and Buspools. John E. Evans, IV, Richard H. Pratt. Transportation Research Board, 2005. TCRP Report 95, Chapter 5. (388.4097 TCRP RPT 2005 no95 ch5)

ROAD DESIGN & MAINTENANCE

Development of Object-Oriented Design and Specifications for Iowa DOT and Urban Standards: Phase I. Edward J. Jaselskis ... [et al.] Center for Transportation Research and Education, Iowa State University, 2004. (620.0042 DEVELOP 2004)
<http://www.ctre.iastate.edu/reports/tr487oodas.pdf>

Effects of Central Island Landscape Treatments at Single-Lane Roundabouts. Karen S. Schurr and Jorge Abos-Sanchez. Mid-America Transportation Center, University of Nebraska-Lincoln, 2005. (388.13 SCHURR 2005)

Fundamentals of Traffic Engineering. Wolfgang S. Homburger ... [et al.]. Institute of Transportation Studies, University of California, Berkeley, 2001. (625.7 FUNDAME 2001)

Human Factors for Highway Engineers. Edited by R. Fuller, J.A. Santos. Pergamon, 2002. (629.283 HUMAN F 2002)

Operational Performance of Kansas Roundabouts: Phase II. Eugene R. Russell, Srinivas Mandavilli and Margaret J. Rys. Kansas Dept. of Transportation, 2005. (388.13 RUSSELL 2005)

A Policy on Design Standards--Interstate System. American Association of State Highway and Transportation Officials, 2005. (AASHTO DS-5 2005)

SAFETY

AASHTO Strategic Highway Safety Plan: A Comprehensive Plan to Substantially Reduce Vehicle-Related Fatalities and Injuries on the Nation's Highways. American Association of State Highway and Transportation Officials, 2005. (363.125 AASHTO 2005) <http://safety.transportation.org/doc/Safety-StrategicHighwaySafetyPlan.pdf>
Implementation guides: <http://safety.transportation.org/guides.aspx>

Effectiveness of Extra Enforcement in Construction and Maintenance Work Zones. Ali Kamyab... [et al.] Center for Transportation Research and Education, Iowa State University, 2003. (363.2332 EFFECTI 2003)
<http://www.ctre.iastate.edu/reports/WZ4E.pdf>

Incident Management Assistance Patrols: Assessment of Investment Benefits and Costs. Asad Khattak and Nagul Roupail. North Carolina Dept. of Transportation, Research and Analysis Group, 2005. (363.125 KHATTAK 2005)

Statistical Evaluation in Traffic Safety Studies. Institute of Transportation Engineers, 1999. (363.125 STATIST 1999)

SEISMIC STUDIES & DESIGN

Seismic Behavior and Retrofit of Bridge Knee Joint Systems. David I. McLean and Nasim K. Shattarat. Washington State Dept. of Transportation, 2005. WA-RD 601.1. (624.252 MCLEAN 2005)

SOIL & SOIL STABILIZATION

Field Evaluation of Compaction Monitoring Technology: Phase I. David J. White... [et al.]. Center for Transportation Research and Education, Iowa State University, 2004. (624.1513 FIELD E 2004) <http://www.ctre.iastate.edu/reports/tr495.pdf>

STRUCTURES DESIGN & MAINTENANCE

Effects of Continuous Median Barriers on Highway Speeds, Emergency Response Times, and Transport Times on North Carolina Highways. Raghavan Srinivasan... [et al.]. North Carolina Dept. of Transportation, Research and Analysis Group, 2003. (625.795 EFFECTS 2003)

Evaluation of Alternate Cable Anchor Designs and Three-Cable Guardrail Adjacent to Steep Slope. Ryan M. Nelson... [et al.]. Midwest Roadside Safety Facility, University of Nebraska-Lincoln, 2005. (625.795 EVALUAT 2005)

TRAFFIC CONTROL DEVICES

RHODES-ITMS-MILOS: Ramp Metering System Test. Frank W. Ciarallo and Pitu B. Mirchandani. Arizona Dept. of Transportation, 2002. (625.794 CIARALL 2002)

Signalized Intersections: Informational Guide. Lee A. Rodederdt... [et al.]. Federal Highway Administration, 2004. (388.3122 SIGNALI 2004) <http://www.tfhrc.gov/safety/pubs/04091/04091.pdf>

TRAFFIC FLOW & TRAFFIC ESTIMATION

A Complete Review of Incident Detection Algorithms & Their Deployment: What Works and What Doesn't. Emily Parkany. New England Transportation Consortium, 2005. (388.3124 PARKANY 2005)

Alternative Performance Measures for Evaluating Congestion. Lazar N. Spasovic and Jakub P. Rowinski. New Jersey Dept. of Transportation, 2004. (388.3142 SPASOVI 2004)

Evaluation of Different Methods to Calculate Heavy-Truck VMT. Shauna Hallmark and Stephen Lamptey. Midwest Transportation Consortium, 2004. (388.324 HALLMAR 2004) <http://www.ctre.iastate.edu/reports/vmt.pdf>

False Capacity for Lane Drops. Jae-Joon Lee, Joseph E. Hummer, and Nagui M. Rouphail. North Carolina Dept. of Transportation, Research and Analysis Group, 2005. (625.7028 LEE 2005)

Overcoming Obstacles to the Use of Traffic Signal Detector Data for Traffic Forecasting. Joe Milazzo... [et al.]. North Carolina Dept. of Transportation, Research and Analysis Group, 2001. (388.3122 OVERCOM 2001)

Remote Sensing Change Analysis Methodology to Support Traffic Monitoring Programs. Phase 1 and 2. Reginald R. Souleyrette... [et al.] Center for Transportation Research and Education, Iowa State University, 2003. (388.314 REMOTE 2003 and 2003b) <http://www.ctre.iastate.edu/>

Study of Optimal Travel Speed Limits for Shared Traffic. Jian Yang and Janice Daniel. New Jersey Dept. of Transportation, 2004. (388.3144 YANG 2004)

Washington State Travel Trends 1980-2001. Anne Vernez Moudon, D.W. Sohn and Gwen Rousseau. Washington State Dept. of Transportation, 2005. WA-RD 615.2 (388.0979 MOUDON 2005) <http://depts.washington.edu/trac/bulkdisk/pdf/615.2.pdf>

TRAFFIC SIGNS AND SIGNALS

Red Light Camera Systems Operational Guidelines. U.S. Dept. of Transportation, Federal Highway Administration, National Highway Traffic Safety Administration, 2005. (625.794 RED LIG 2005)

TRAINING

Designing Web-Based Training: How to Teach Anyone Anything Anywhere Anytime. William Horton. Wiley, 2000. (658.3124 ALLEN 2003)

E-Learning and The Science of Instruction: Proven Guidelines for Consumers and Designers of Multimedia Learning. Ruth Colvin Clark and Richard E. Mayer. Jossey-Bass/Pfeiffer, 2003. (658.3124 CLARK 2003)

E-Learning Tools and Technologies: A Consumer's Guide for Trainers, Teachers, Educators, and Instructional Designers. William Horton and Katherine Horton. Wiley, 2003. (658.3124 HORTON 2003)

Michael Allen's Guide to E-Learning: Building Interactive, Fun, and Effective Learning Programs For Any Company. Michael W. Allen. John Wiley, 2003. (658.3124 ALLEN 2003)

TRUCKS AND TRUCKING

Western Uniformity Scenario Analysis: A Regional Truck Size and Weight Scenario Requested by the Western Governor's Association. Federal Highway Administration, 2004. (Internet Resource)

<http://www.fhwa.dot.gov/policy/otps/truck/wusr/wusr.pdf>

WEATHER, SNOW & ICE CONTROL

Web-Based Implementation of a Winter Maintenance Decision Support System Using GIS and Remote Sensing. Ramanathan Sugumaran... [et al.]. Midwest Transportation Consortium, 2005.

(625.763 WEB BAS 2005) <http://www.ctre.iastate.edu/mtc/reports/winter%5Fmdss.pdf>